

STAT

24 May 1963



Dear Sir:

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Enclosed are clarifications to our Proposal [redacted] in accordance with our discussion [redacted] on May 22nd and 23rd.

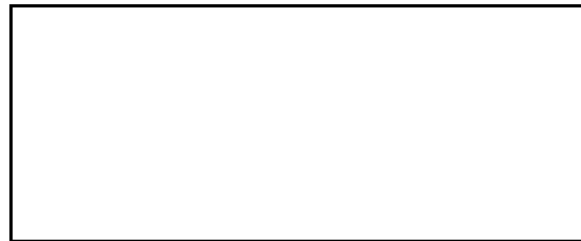
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Item 9, Alternate A, reflects the cost to increase the length of the film loop to 20 feet minimum. Alternate B reflects the cost of increasing the film loop to 24 feet.

Item 2 reflects the cost of adding one lens in each turret.

We shall be pleased to clarify any further questions you may have.

Very truly yours,



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ARB:efs

Encl: Clarifications
Cost Breakdowns

Declass Review by NIMA / DoD

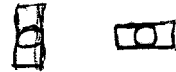
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Next 2 Page(s) In Document Exempt

ILLEGIB

27 May 1963

1. Casters - NC



2. Field diameter -

3. Accuracy - test procedure 600 l/mm resolution
20 μ - 50 μ 3 μ star

4. Low power range 2x-8x

5. Power change cycle time requirement

6. Dual roll handling system

7. Vacuum hold-down for varying widths

8. Possibility for mensuration
a. Accuracy



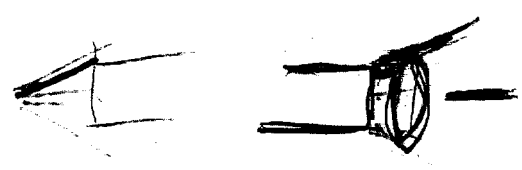
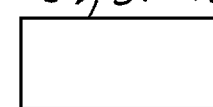
$\pm 3. \mu$ $\pm 5 \mu$
 $\pm 2.5 \mu \rightarrow \pm 5 \mu$
 $(\pm 1 \mu \rightarrow \pm 2 \mu)$

9.

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2/.

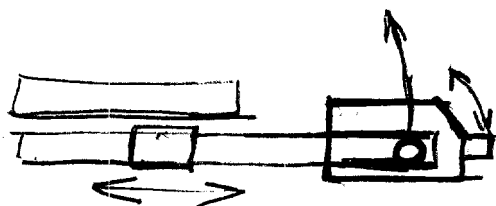
22 May 63

10. Cost of LASERS 
11. Field lens at fiber term
12. No dark dot 
13. Power options w/manual options
14. Laser Marking System
A. Gas vs Ruby 
B. Practicability
15. Film loop size 20 ft.
16. Temperature
17. Portable console

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1. Eye assembly mounting



2. Why not a field lens at fiber cable
exit terminal. (page 9)

3. Why not gas laser.



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4. Separate control console

Printed for Device

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1. Consider minimum mag of 2X.
2. 2 σ standard deviations
3. Projected image of the dot at the objective plane vs reticle at the out put plane of the zoom system
4. Fixed price contract
5. Problems associated with 1 σ accuracy
6. Fixed Price
7. Testing methods should be specified.
 - a. use test grid
 - b. specify evaluation analysis procedures.

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RECOMMENDATIONS

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General Notes:

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1. would recommend
2. would recommend optional features 2 and 5 only.
3. This contract will have two bonuses in that we can investigate a lightly versatile high resolution scanning stereoscope, a prototype for a high resolution stereocomparator while obtaining an operational point transference device.
4. we should request the inclusion of a separate control console.
5. we should investigate the possibility of a simplified version of optional feature number two (2) and the substitution of a gas for a ruby laser.

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Questions

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1. What is guaranteed angular field diameter? Minimum. Page 10
2. Reticle - no provision for dark reticle. Page 10.
3. Laser actuation at high power only
4. Film hold-down not clear. page 16
5. Point marks indexing counters are not described as resettable.

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For:

1. A proven capability to meet the resolution requirements.
2. A tested scan drive systems.
3. A tested film take up system with excellent performance characteristics.
4. An acceptable film transport system.
5. A working fiber optic image integrator.
6. Proposal offers items as options, thus giving us greater flexibility of choice.
7. A marking system which should remain correctly aligned with out constant adjustments.
8. Best attempt to meet spirit of the design objectives.
9. A price advantage over their competitors.

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against:

1. The weakest area in this proposal is the laser marking system. Possible problems in control of mark size, recharge time and cooling requirements. Should look into a gas laser.
2. Lack of separate control consol, (we should alter proposal).
3. Require a portion of option #2 in order to meet design requirements.
4. Take up is 14 ft. not 15 ft.

1. Hi-speed processing

- A. 5 sec neg 110 lum Discan
- B. 8 sec pos 90 lum Discan reversal
- C. 14 grey
- D. now 35 — mm
- E. soon 5 inch, 70 mm

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MAR 63, 32.

3.

Fiber Optic Laser projection system
15X20' screen 12 million bits

4. Contrast modulation in hi-speed processor

22 April 63

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1. Casters -

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2. Field Diameter

Loom
Pkg

3X setting .8"
.7X setting 1.4"

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B. 3/4" Fiber cable 4.4K
1" " " 8.5K

C. 35°FD 5X-125X — 625
600
5X-125X 64m 600lm

3. Accuracy $\pm 1\mu$

A. with grating, res tgts, star images
mark donut

20m

20m

B. Mark procedure at fixed objective
set.

1. Mark buttons

a. shifts to high power - may have o's
check

b. Marks

c. returns to original set

FILE IN POINT TRANSFER DEVICE

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TELEPHONE OR VERBAL CONVERSATION RECORD

Subject of Conversation

STEREO POINT TRANSFER DEVICE

Date

16 MAY 63

Information or Action Sought

Wednesday 9:00 AM.

1. Interferometer with laser
2. Laser marking is CW

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Information Given or Action Taken

Arranged a visit for 9:00 AM Wednesday Morning 22 May 1963 to discuss ramifications of Point Transfer Device.

Date

Approved

Time

Signature

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